

BRUHAT BANAGLORE MAHANAGARA PALIKE**Executive Engineer- Yelahanka Division****APPROVED SCHEDULE -'B'****Improvements to Roads and drains in Attur Village, Govt School road, Post office road of Attur ward no.03**

Sl. No	Particulars	Unit	Total Qty	Rate in Rs	
				In Figures	In Words
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3).	Sqm	258.79	80.56	Rupees Eighty And Paise Fifty Six Only
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3	Cum.	229.85	86.92	Rupees Eighty Six And Paise Ninety Two Only
3	KSRRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1. 4.2	Cum.	12.48	5348.76	Rupees Five Thousand Three Hundred Forty Eight And Paise Seventy Six Only
4	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc.completeexcluding cost of steel as per MORTH specification No.1500,1700,2200	Cum.	51.89	11032.48	Rupees Eleven Thousand Thirty Two And Paise Forty Eight Only

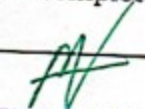
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5	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500	Tonne	3.37	59413.00	Rupees Fifty Nine Thousand Four Hundred Thirteen Only
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10cm thick	Sqm	190.66	825.74	Rupees Eight Hundred Twenty Five And Paise Seventy Four Only
7	Providing precast slab of 100 mm thick including cost of all materials, labour, curing, transportation, loading ,unloading, etc., complete as per the direction of engineer in charge-	Sqm	106.20	1757.00	Rupees One Thousand Seven Hundred Fifty Seven Only
8	Providing precast slab of 250 mm thick including cost of all materials, labour, curing, transportation, loading ,unloading, etc., complete as per the direction of engineer in charge-	Sqm	33.00	4725.00	Rupees Four Thousand Seven Hundred Twenty Five Only
9	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301	Cum.	675.00	48.76	Rupees Forty Eight And Paise Seventy Six Only

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10	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum.	337.50	1665.26	Rupees One Thousand Six Hundred Sixty Five And Paise Twenty Six Only
11	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406	Cum.	301.73	1768.08	Rupees One Thousand Seven Hundred Sixty Eight And Paise Eight Only
12	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM, including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502	Sqm	1341.00	27.56	Rupees Twenty Seven And Paise Fifty Six Only
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5	Sqm	1341.00	11.66	Rupees Eleven And Paise Sixty Six Only

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14	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507	Cum.	67.05	6435.26	Rupees Six Thousand Four Hundred Thirty Five And Paise Twenty Six Only
15	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509	Cum.	40.23	7270.54	Rupees Seven Thousand Two Hundred Seventy And Paise Fifty Four Only


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16	KSRRB M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383,) aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601	Cum.	68.18	3986.66	Rupees Three Thousand Nine Hundred Eighty Six And Paise Sixty Six Only
17	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30(at 360 kg per cum coarse aggregate @ 0.69 cum and fine aggregate @0.46 cum) , with 25mm and down size graded granite metal coarse aggregates and fine aggregates , with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per	Cum.	136.35	6217.96	Rupees Six Thousand Two Hundred Seventeen And Paise Ninety Six Only

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18	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 7kms.	Cum.	904.85	90.40	Rupees Ninety And Paise Forty Only
19	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803	Sqm	41.80	542.72	Rupees Five Hundred Forty Two And Paise Seventy Two Only

Signature of the
EXECUTIVE ENGINEER-4
KRIDCON DIVISION
BENGALURU-5

Signature
Executive Engineer,
Yelahanka Division,
BBMP, Bengaluru-64.